Special Issue

Advances in UV Water and Wastewater Treatment Technology

Message from the Guest Editor

The use of UV light for treating water and wastewater has exponentially increased over the past decade, especially in view of the recent global viral pandemic. UV light is highly effective in the disinfection of (water) pathogens, including viruses, bacteria and protozoa. In addition, UV can directly oxidize many harmful organic contaminants (e.g., NDMA), or indirectly oxidize such contaminants through the production of •OH radicals (UV-based advanced oxidation). This Special Issue will focus on the latest achievements and trends in UV water and wastewater treatment: New UV technologies, new UV applications, novel mechanistic understandings, inactivation/oxidation models and reactor/system design. We accept papers on both UV disinfection and oxidation, including UV-based advanced oxidation. Papers providing results from pilot- and full-scale systems are also accepted, as well as high-quality case studies with global interest. Research articles, reviews, and short communications on all UV topics are welcomed.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2023)

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
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